

Amended Claims - Clean Copy

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- 5 1. (amended) A promoter for expression of arbitrary genes in plant seeds.
- 10 2. (amended) The promoter according to claim 1, wherein it mediates the expression in the cotyledons and in the endosperm of seeds as a function of development.
- 15 3. (amended) An expression cassette for expression of arbitrary genes in the plant seed, comprising:
- a promoter according to claim 1,
 - a gene capable of being expressed
 - 3' termination sequences.
- 20 4. (amended) The expression cassette according to claim 3, further comprising a DNA sequence of a signal peptide.
- 25 5. (amended) The expression cassette according to claim 3, further comprising a second DNA sequence downstream to a DNA region provided with a transcriptionally regulatory sequence for a seed-specific gene expression, the DNA region containing information for the formation and quantitative distribution of endogenous products or expression of heterologous products in culture crops.
- 30 6. (amended) The expression cassette according to claim 3, wherein arbitrary foreign genes are integrated either as transcription or as translation fusions.
7. (amended) The expression cassette according to claim 4, wherein the signal peptide is coded by a SBP seed protein gene.

8. (amended) Expression cassette according to, wherein the gene is capable of coding for a sucrose binding protein like gene.
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9. (amended) The expression cassette according to claim 3, wherein it is also used for co- and multiple transformations.
- 10 10. (amended) Plasmids containing an expression cassette for expression of arbitrary genes in the plant seed, comprising
- a promoter according to claim 1
 - a gene capable of being expressed
 - 3' termination sequences.
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11. (amended) The plasmid according to claim 10, wherein the plasmid is pSBPROCS comprising a DNA sequence about 5.3 kB in size, the DNA sequence comprising a SalI promoter fragment of the regulatory starter area about 1.9 kb in size including the signal peptide and 5 triplets of a SBP-homologous gene of *Vicia faba*, restriction sites for cloning of foreign genes and a transcription terminator of the octopine synthase gene.
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12. (amended) The plasmid according to claim 10, wherein the plasmid is pPTVSBPRGUS comprising a DNA sequence about 14.9 kb in size, comprising a phosphinothricin resistance gene about 1 kb in size, a SalI/NcoI promoter fragment of the regulatory starter area of the SBP-like gene of *Vicia faba* about 1.8 kb in size, the coding region of the β -glucuronidase about 2 kb in size and the transcription terminator of the octopine synthase gene.
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13. (amended) Method for an insertion of an expression cassette for expression of arbitrary genes in the plant seed, comprising a promoter according to claim 1, a gene capable of being expressed and 3' termination sequences with a DNA sequence for seed-specific gene expression into a plant cell, comprising the following steps:

- a) isolating a clone VfSBP20, wherein the gene coding for the SBP seed protein occurring in the plant seed is selected from a cDNA Bank of cotyledons of *Vicia faba*,
- b) isolating a clone pSBPR15, wherein a DNA sequence contained therein comprises the regulatory starter region of the SBP seed protein gene of *Vicia faba* and a sequence from a related legume hybridising with the DNA sequence of SBPR15,
- c) producing a plasmid pSBPOCS by isolating and closing the Sall fragment of plasmid pSBPR15 1.9 kb in size,
- d) integrating foreign genes into the pSBPOCS expression cassette,
- e) cloning of the expression cassette containing a DNA sequence for over-expression of foreign genes in plant seeds into binary vectors
- f) transferring the expression cassette containing the foreign gene under the control of the promoter for expression of arbitrary genes in plant seeds.

19. (amended) Plant cell containing a plasmid containing an expression cassette for expression of arbitrary genes in the plant seed, comprising a promoter according to claim 1, a gene capable of being expressed and 3' termination sequences.

20. (amended) The method of claim 13, wherein a plant cell is produced.
- 5 21. (amended) Plant or plant tissues regenerated from a plant cell based on an expression cassette for expression of homologous and heterologous genes in the seeds of transformed plants, comprising a promoter according to claim 1, a gene capable of being expressed, and 3' termination sequences.
- 10 22. (amended) Plant according to claim 21, wherein it is a culture crop.
- 15 24. (New) The expression cassette according to claim 4, further comprising a DNA sequence of a SBP signal peptide.